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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,049	04/15/2004	Kiyoshi Nishikawa		7408
7590 08/23/2007 Patrick G. Burns, Esq.			EXAMINER	
GREER, BURNS & CRAIN, LTD			RENNER, CRAIG A	
Suite 2500 300 South Wacker Dr.			ART UNIT	PAPER NUMBER
	Chicago, IL 60606		2627	
			MAIL DATE	DELIVERY MODE
			08/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/825,049	NISHIKAWA ET AL.			
		Examiner	Art Unit			
		Craig A. Renner	2627			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SH WHIC - Exter after - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE asions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 19 Ju	<u>ıly 2007</u> .				
′=	This action is FINAL . 2b)⊠ This action is non-final.					
3)[_]	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under E	x parte Quayle, 1955 C.D. 11, 48)3 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-8</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>1-8</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	on Papers					
10)	The specification is objected to by the Examine. The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the liderawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority ι	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	t(s) e of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO.413)			
2) D Notic 3) D Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4)	ate			

Application/Control Number: 10/825,049 Page 2

Art Unit: 2627

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 19 July 2007 has been entered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- a. In lines 1-3 of claim 1, it is indefinite as to how a "single pole magnetic head" can comprise a plurality of poles, i.e., an "auxiliary pole" and a "main pole".
- b. Claims 2-8 inherit the indefiniteness associated with independent claim 1 and stand rejected as well.

Application/Control Number: 10/825,049 Page 3

Art Unit: 2627

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 6, and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Sasaki et al. (US 2004/0145826).

Sasaki et al. (US 2004/0145826) teaches a single pole magnetic head (FIGS. 24A thru 41B, for instance) comprising an auxiliary pole (40); a main pole (112a) terminated at a position receding from a medium-opposed surface (as shown in FIG. 35A, for instance), the main pole having a lower surface opposed to the auxiliary pole at a distance (as shown in FIG. 35A, for instance); a connection piece (41a) connecting the rear of the main pole to the auxiliary pole at a center of a coil pattern (includes 45, for instance); an intermediate magnetic layer (114a) extending forward toward the medium-opposed surface from an upper surface of the main pole and terminating at a position receding from the medium-opposed surface (as shown in FIG. 36A, for instance); and a tip magnetic layer (120) extending to the medium-opposed surface from an upper surface of the intermediate magnetic layer (as shown in FIG. 39A, for instance), and being exposed at the medium-opposed surface (as shown in FIG. 39A, for instance) [as per claim 1]; wherein a flat surface is defined on a surface of the main

Page 4

Art Unit: 2627

pole so as to receive the intermediate magnetic layer (as shown in FIG. 36A, for instance) [as per claim 6]; and wherein a flat surface is defined on a surface of the intermediate magnetic layer so as to receive the tip magnetic layer (as shown in FIG. 39A, for instance) [as per claim 7].

6. Claims 1, 3, 6, and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Shukh et al. (US 2004/0252415).

Shukh et al. (US 2004/0252415) teaches a single pole magnetic head (FIGS. 2-4, for instance) comprising an auxiliary pole (106); a main pole (122) terminated at a position receding from a medium-opposed surface (as shown in FIG. 2, for instance), the main pole having a lower surface opposed to the auxiliary pole at a distance (as shown in FIG. 2, for instance); a connection piece (108) connecting the rear of the main pole to the auxiliary pole at a center of a coil pattern (110); an intermediate magnetic layer (123) extending forward toward the medium-opposed surface from an upper surface of the main pole and terminating at a position receding from the mediumopposed surface (as shown in FIG. 2, for instance); and a tip magnetic layer (126) extending to the medium-opposed surface from an upper surface of the intermediate magnetic layer (as shown in FIG. 2, for instance), and being exposed at the mediumopposed surface (as shown in FIG. 2, for instance) [as per claim 1]; wherein a primary magnetic pole tip region is defined in the tip magnetic layer, the primary magnetic pole tip region extending rearward from the medium-opposed surface, keeping a constant lateral width (as shown in FIG. 4, for instance) [as per claim 3]; wherein a flat surface is

Application/Control Number: 10/825,049 Page 5

Art Unit: 2627

defined on a surface of the main pole so as to receive the intermediate magnetic layer (as shown in FIG. 2, for instance) [as per claim 6]; and wherein a flat surface is defined on a surface of the intermediate magnetic layer so as to receive the tip magnetic layer (as shown in FIG. 2, for instance) [as per claim 7].

Pertinent Prior Art

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. This includes Sasaki et al. (US 2005/0185337), which teaches a single pole magnetic head comprising an auxiliary pole (211); a main pole (217) terminated at a position receding from a medium-opposed surface (as shown in FIG. 3, for instance), the main pole having a lower surface opposed to the auxiliary pole at a distance (as shown in FIG. 35, for instance); a connection piece (216) connecting the rear of the main pole to the auxiliary pole at a center of a coil pattern (includes 231, for instance); an intermediate magnetic layer (218) extending forward toward the medium-opposed surface from an upper surface of the main pole and terminating at a position receding from the medium-opposed surface (as shown in FIG. 3, for instance); and a tip magnetic layer (221) extending to the medium-opposed surface from an upper surface of the intermediate magnetic layer (as shown in FIG. 3, for instance), and being exposed at the medium-opposed surface (as shown in FIG. 3, for instance).

Art Unit: 2627

Allowable Subject Matter

8. Claims 2, 4, 5, and 8 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Response to Arguments

9. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Craig A. Renner whose telephone number is (571) 272-7580. The examiner can normally be reached on Tuesday-Friday 9:00 AM - 7:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on (571) 272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Craig A. Renner Primary Examiner

Art Unit 2627

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